

FROM: GA DNR HSRP 4846578837
Post-It brand
Fax Transmittal Memo 7672

To: John McKeown
Company: EPA
Location:
Fax #: 562-8896
Comments:

Telephone #

No. of Pages: 18
From: Tracy Heard
Company: GA EPD.
Location: Haz-Site Response
Fax #: 404-657-8600
Original Disposition: ☐ Destroy ☐ Return ☐ Call for pickup
94845628896
Today's Date: 2/17/97
Time: 5:20pm
*217 P.1/13

Site Sampling Plan for Travis Field. I plan to
Sample next week (26th + 27th). Please call if
you have any questions or need anything else.

Site Inspection Site Sampling Plan

Travis Field
Savannah, Chatham County, Georgia

EPA ID# GAD984307918
CERCLIS # 05843

Prepared for U.S. Environmental Protection Agency
Region IV

Prepared by Tracy L. Heard
Environmental Specialist

Georgia Environmental Protection Division
Hazardous Waste Management Branch

February 17, 1997

Reviewed by:

Mark Smith



10730244

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INTRODUCTION

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Georgia Environmental Protection Division (EPD) is conducting a Site Inspection Sampling Event at Travis Field, located in Chatham County, Georgia (EPA ID# GAD984307918, CERCLIS # 05843). The purpose of the investigation is to gather data which is necessary to further evaluate the site and to verify the scoring conducted during the September 1996 Preliminary Assessment.

SITE DESCRIPTION AND REGULATORY AND OPERATIONAL HISTORY

Location

The Travis Field site consists of three abandoned landfills located on the former Chatham Army Airfield. The airport is now owned and operated by the City of Savannah as the Savannah International Airport. Travis Field is located in the northwest quadrant of Chatham County, Georgia, approximately 8 miles northwest of Savannah, Georgia. All three of the sites are located off of Georgia State Route 307 (Dean Forest Road).

Landfill No. 1 is an inactive landfill located at LAT 32° 7' 12.65"/LONG 81° 11' 5.8", which is approximately 750 feet east of State Route 307. Landfill No. 1 is the largest of the three landfill areas and covers approximately 15 acres. The landfill was built on a former wetland and is surrounded by wetland areas. Although the site topography is rather flat, access to the site is difficult due to dense brush and trees.

Landfill No. 2 is an inactive landfill located at LAT 32° 7' 5.17"/LONG 81° 11' 18.3". It is also located off of State Route 307 and is located southwest of landfill no. 1. The landfill covers approximately 7 acres. A drainage ditch borders the southern boundary of the site. An active gas station and a Georgia Air National Guard (GANG) Petroleum, Oils and Lubricant (POL) depot are located across the drainage ditch from the site. This landfill was also built on a former wetland and is heavily overgrown with vegetation making access to the site difficult.

Landfill No. 3 is an inactive landfill located at LAT 32° 8' 16.71"/LONG 81° 12' 49.65". The site is located between Gulfstream Road and Airways Road in the northwest quadrant of the Savannah International Airport. The site covers approximately 12 acres and is located approximately 1,000 feet northwest of the air traffic control tower. A large pond is located in the middle of the site. Adjacent to the pond is a large hill which may be a result from previously excavating the area that is now the pond. The site is located in a wetland habitat. St. Augustine Creek is located across Gulfstream Road from the site (see Figure 1).

Historical Site Operations

Between September 1, 1942, and May 8, 1944, the Army Air Force acquired 2,462.29 acres for Travis Field. The original acquisition was for use by the Army Air Force as an emergency auxiliary landing field. The site was eventually used as a command base and training station for the Second Bomb Wing of the Army Air Corps. The airport became known as Chatham Field. Military development ceased after World War II. Most of the airfield was declared Surplus on April 3, 1947. Complete withdrawal from the War Assets Administration was approved in October 1948. A Certificate of Transfer, dated November 28, 1948, conveyed the property from the War Assets Administration to the Air Force, and the name Chatham Field was changed to Chatham Air Force Base on June 23, 1949. All property leased or owned by the Federal Government was transferred to the City of Savannah for use as a civilian airport on July 5, 1950. Since 1950, the property that included landfills no. 1 and no. 2 was sold to private sector interests, and this property is currently owned by Norfolk Southern Railway Company. Landfill no. 3 is still on Savannah International Airport property.

At landfill no. 1, documented disposed material included construction material/debris, appliance parts, pole timbers, shingles (suspected asbestos-containing materials (ACM)), and unlabelled drums of unknown content. The landfill materials were not identified during the on-site reconnaissance, however most of the site could not be accessed due to the overgrown vegetation.

At landfill no. 2, numerous 55-gallon drums were noted by the consultants for the Corps of Engineers. The drums had labels identifying the drum contents as lube oil, used JP-4, and solvents. In addition, landfill no. 2 contained spent oil filters, paint cans, suspected ACM shingles, parts cleaning equipment, and construction materials. During the on-site reconnaissance, various household waste and paint cans were identified. Again, the entire site could not be accessed due to the overgrown vegetation.

At landfill no. 3, documented debris included numerous drums, paint cans, oil filters, cleaning solvent containers, 5-gallon plastic cans, metal debris, suspected ACM shingles, and appliance parts. During the on-site reconnaissance, drums were identified in different locations across the site. Also, a low lying area, which is located next to the large pond and adjacent to the large hill, was identified which contained various solid waste including paint cans, drums, and car parts.

Removal activities have not taken place at any of the landfill sites. The investigation derived wastes (IDW) are currently located in drums on site [Ref. 2].

Past Activities

The Army Corps of Engineers has conducted subsurface investigations and site assessments at the site as part of the United States Army Corps of Engineer's Defense Environmental Restoration Program--Formerly Utilized Defense Sites (DERP-FUDS) Program. A phase I site investigation was conducted in 1993 by Ebasco to determine if the three landfills had contaminated the soil and groundwater from past Department of Defense activities.

A supplemental site investigation was conducted in 1995 to gather additional information and data in regards to the contamination previously identified in 1993. Information regarding potential receptors and the surrounding areas was researched in order to evaluate the site and its associated risk to human health and the environment. The results of the supplemental site investigation were submitted to EPD in July of 1996. The investigations included conductivity and electromagnetic surveys to identify the boundaries of the landfill areas. The investigations also included the sampling and analyses of soil and groundwater.

COLLECTION OF NON-SAMPLING DATA

A visual site inspection will be conducted to verify the presence and characteristics of the reported surface water bodies located on landfills #1 and #2 to the definition of a surface water body (containing water year-round). The absence of water in the ditches may affect the scoring of the surface water pathway.

SAMPLING ACTIVITIES

Objectives

The purpose of the sampling event is to verify contamination in the reported surface water bodies and to also gather data that was lacking from the previously conducted investigations at the site. The site inspection sampling will be geared toward suspected contaminated receptors and possible migration pathways. The results of the sampling event may alter the previously conducted scoring of the site.

Instructions for all Field Activities

A field reconnaissance will be conducted on all three landfill sites by two EPD staff members. While conducting the reconnaissance, information will be documented regarding any hydrologic barriers, on-site surface water bodies, nearby off-site surface water bodies, and potential migration pathways. The quality assurance program for the sampling event will consist of collecting a sample duplicate, and a field blank. Trip blanks will not be collected during the sampling event due to the lack of need for the testing of volatiles. Rinseate blanks will not be collected since decontamination measures will not take place on site.

The area to be sampled on landfill #1 is an area downgradient of the landfill which was reported as being a surface water body. If surface water is present, then a sediment sample will be collected for analyses. If surface water is not present, then a soil sample will be collected. Please refer to Figures 1 and 2 for the proposed sampling location and the potentiometric map [Ref. 1]. A soil sample will also be collected from an area not suspected to be contaminated. This sample will be evaluated as a background sample. Table 1 contains the proposed analyses.

The area to be sampled on landfill #2 is also downgradient of the landfill. A sediment sample or a soil sample, dependent on the presence or absence of a surface water body, will be collected from the location. A soil sample will also be collected from an area not suspected to be contaminated. Please refer to Figures 3 and 4 for the proposed sampling location and the potentiometric map [Ref. 1].

The on-site pond located at landfill #3 will be sampled and analyzed. The pond has not been sampled to date and is suspected to be contaminated. An upgradient pond, not suspected to be contaminated, will be sampled for a surface water background concentration. A ditch, located between the pond and the probable point of entry to St. Augustine Creek will be sampled to determine if the ditch is a possible migration pathway. The probable point of entry to the creek will also be sampled along with an upgradient creek sample. A soil sample will also be collected from an area not suspected to be contaminated. Please refer to Figures 5 and 6 for the proposed sampling location and the potentiometric map [Ref. 1]. Please refer to Table 1 for the proposed analyses.

The samples will not be filtered. The purpose behind all of the sampling locations is to gather additional data on the surface water pathway.

PROJECT MANAGEMENT

Sampling Crew

Two EPD staff members will conduct the field reconnaissance and sampling event at the site. Tracy Heard, an environmental specialist, will choose the sampling locations and organize the sampling event. Rusty Kestle, a geologist, will provide oversight for the sampling event and will assist with the sample collection. Soil, sediment, and surface water samples will be collected during the sampling event. The samples will be collected via hand augers, stainless steel spoons, and water dippers. Decontamination will not take place due to the fact that clean, sampling equipment will be used for each sample. The sample containers are all sterile and contain the necessary preservatives for analyses. All of the samples will be analyzed by the EPD laboratory and the various analyses include metals, pesticides, and BTEX.

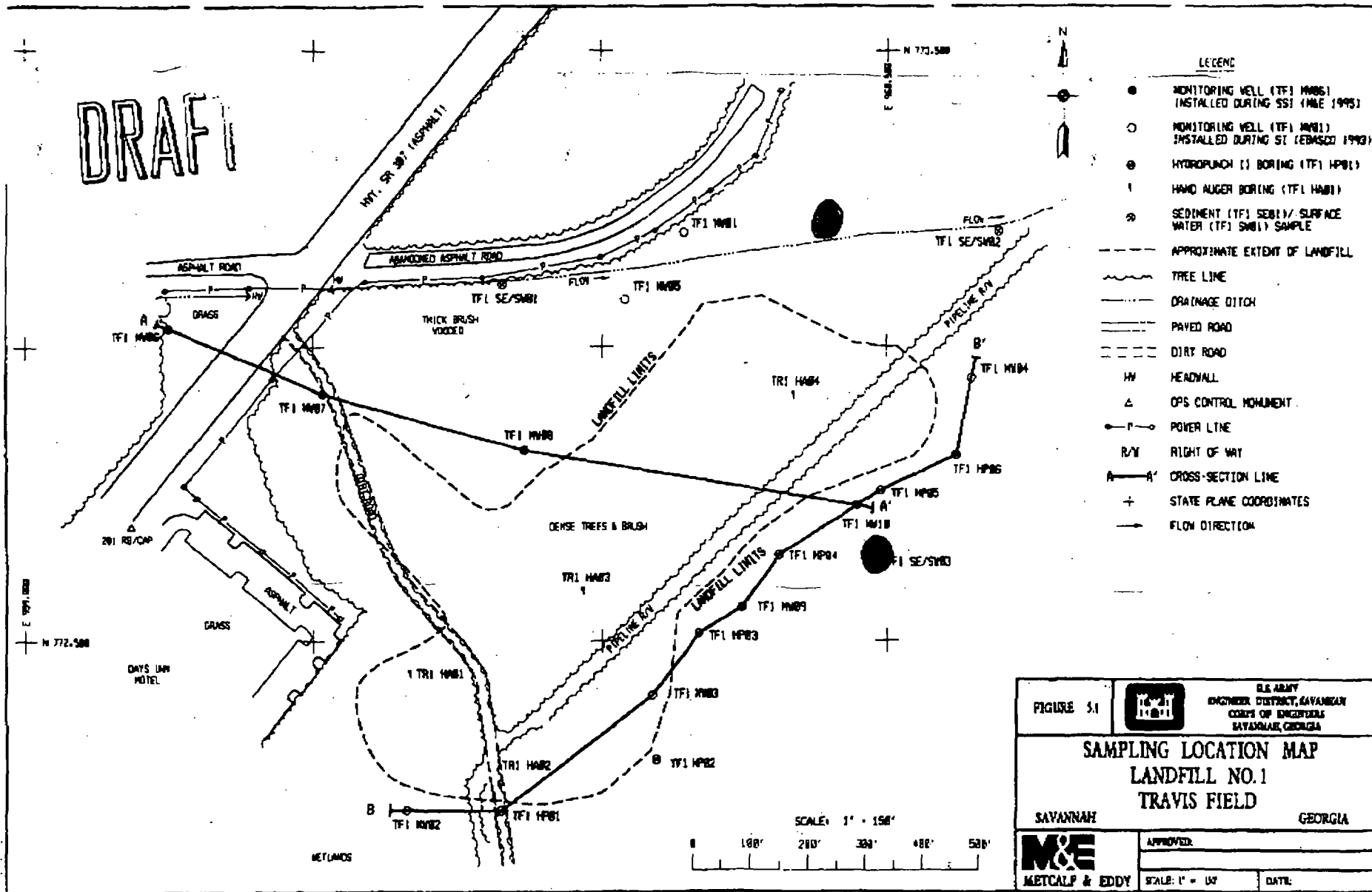
Two 8-hour days, February 26 and February 27, 1997, are being allocated for the field reconnaissance and the sampling event. The samples will be delivered to the EPD laboratory in Atlanta.

The project manager of the site under the Army Corps of Engineers will be notified of the investigation and will be sent a copy of the sampling plan approximately one week before the sampling event.

References

1. Ebasco, 1996. Draft Final Report/Supplemental Site Investigation of Three Abandoned Landfill Sites.
2. Site Reconnaissance, Travis Field Site, Savannah, Chatham County, August 7-8, 1996, conducted by Tracy L. Heard and Mark Smith.

DRAFT



3-2

Figure 1
SI Sampling Plan

FROM GA DNR HSRP

4846578887

02-17-97 06:43PM TO

94045628896

*217 P.9/13

#217 P.10/13

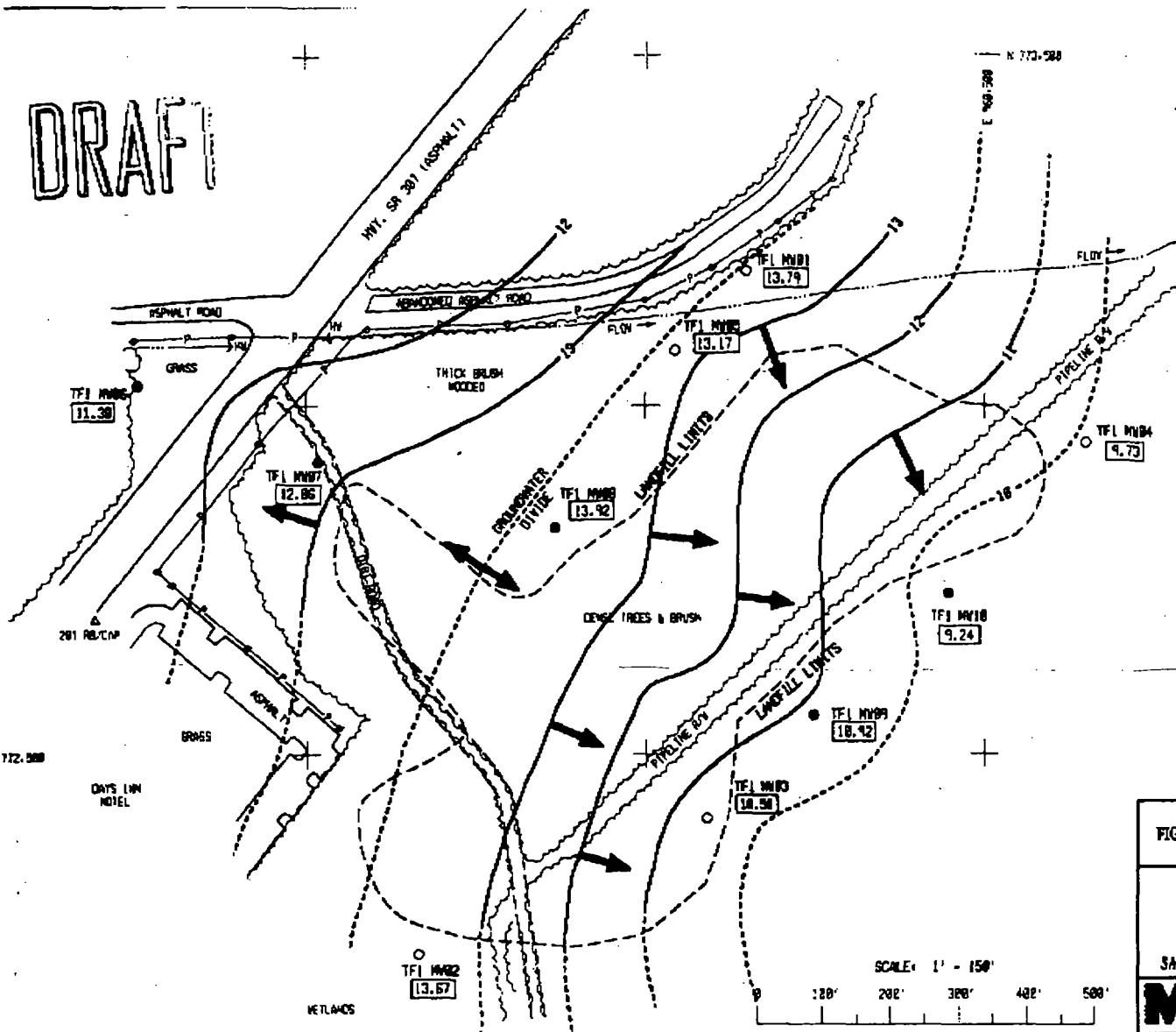
94045628896

02-17-97 06:43PM TO

4046578807

FROM GA DNR HSRP

DRAFT



- LEGEND**
- MONITORING WELL (TF1 MW01) (INSTALLED DURING SST (M&E 1995))
 - MONITORING WELL (TF1 MW01) (INSTALLED DURING ST (EBASCO 1993))
 - [9.73] GROUNDWATER ELEVATION (FT-MSL)
 - APPROXIMATE EXTENT OF LANDFILL
 - ~ TREE LINE
 - - - DRAINAGE DITCH
 - == PAVED ROAD
 - - - DIRT ROAD
 - HW HEADWALL
 - △ GPS CONTROL MONUMENT
 - P — POWER LINE
 - R/W RIGHT OF WAY
 - + STATE PLANE COORDINATES
 - FLOW DIRECTION
 - 12- GROUNDWATER CONTOUR (FT-MSL)
 - 12- GROUNDWATER CONTOUR (INTERVAL = 1.8 FT.)
 - GROUNDWATER FLOW DIRECTION

NOTE:
GROUNDWATER ELEVATIONS CALCULATED FROM MEASUREMENTS TAKEN ON 14-NOV-95.

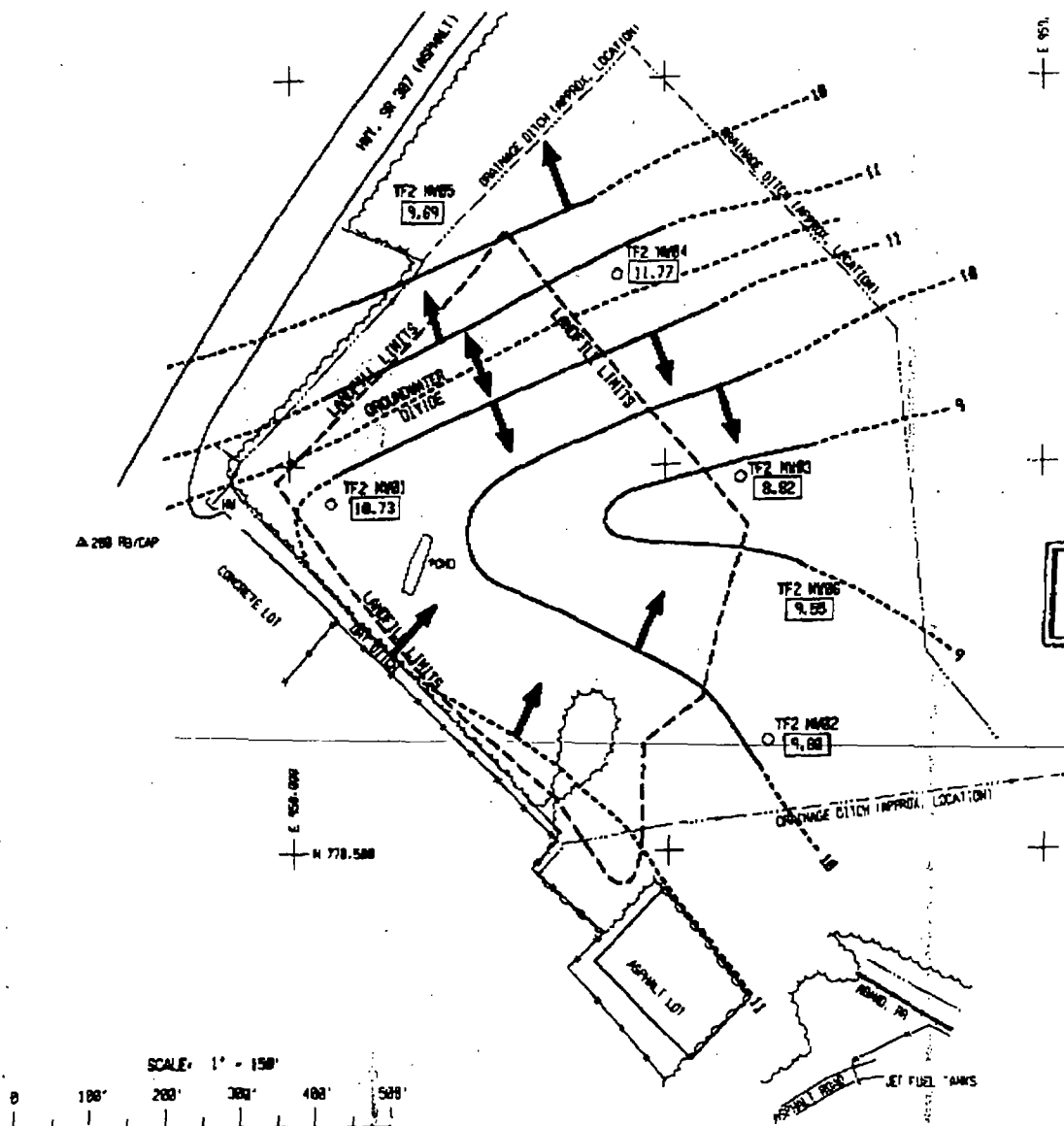
FIGURE 57	U.S. ARMY ENGINEER DISTRICT, SAVANNAH CORPS OF ENGINEERS SAVANNAH, GEORGIA	
	POTENTIOMETRIC SURFACE MAP LANDFILL NO. 1 TRAVIS FIELD	
SAVANNAH	GEORGIA	
M&E METCALF & EDDY	APPROVED: _____	
	SCALE: 1" = 50'	DATE: _____

Figure 2
SI Sampling Plan

#217 P. 11/13



SI Sampling Plan

E 950
N 771.588E 950.000
N 778.588**LEGEND**

- MONITORING WELL (TF2 MW05) INSTALLED DURING SSI (MME 1995)
- MONITORING WELL (TF2 MW01) INSTALLED DURING SJ (EBASCO 1993)
- 9.73 GROUNDWATER ELEVATION (FT-MSL)
- - - - - APPROXIMATE EXTENT OF LANDFILL
- ~~~~~ TREE LINE
- - - - - DRAINAGE DITCH
- ===== PAVED ROAD
- HN HEADWALL
- △ GPS CONTROL MONUMENT
- +— CHAINLINK FENCE
- + STATE PLANE COORDINATES
- FLOW DIRECTION
- 10- GROUNDWATER CONTOUR (FT-MSL)
- 10- GROUNDWATER CONTOUR INTERVAL = 1.0 FT.
- GROUNDWATER FLOW DIRECTION

NOTE:
GROUNDWATER ELEVATIONS CALCULATED
FROM MEASUREMENTS TAKEN ON 15-NOV-95.

FIGURE 510



U.S. ARMY
ENGINEER DISTRICT, SAVANNAH
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

**POTENTIOMETRIC SURFACE MAP
LANDFILL NO.2
TRAVIS FIELD**

SAVANNAH

GEORGIA

M&E
METCALF & EDDY

APPROVED:

SCALE 1" = 24'

DATE:

5-23

Figure 4
SI Sampling Plan

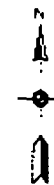
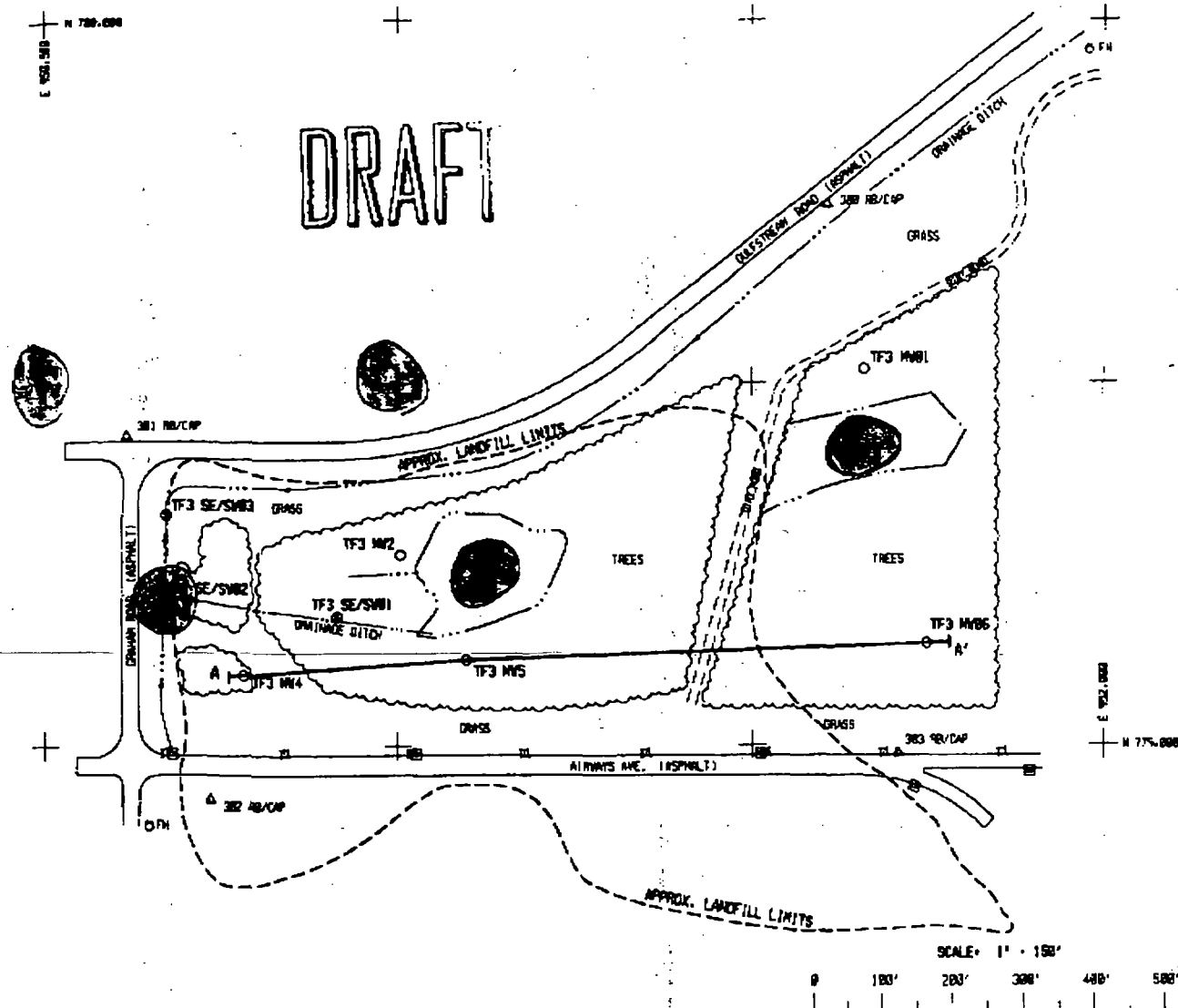
#217 P.13/13

94045628896

DATE: 03-19-96 BY: M. M. 02-17-97 06:45PM TO: 4046578807



FROM: GA DNR HSRP

DRAFT



LEGEND

- MONITORING WELL (TF3 MW1) INSTALLED DURING SI TEBMSCD (1993)
- SEDIMENT (TF3 SE/S1) / SURFACE WATER (TF3 SW/S1) SAMPLE
- - - - - APPROXIMATE EXTENT OF LANDFILL
- ~~~~~ TREE LINE
- - - - - DRAINAGE DITCH
- ==== PAVED ROAD
- - - - - DIRT ROAD
- HY HEADWALL
- △ GPS CONTROL MONUMENT
- FIRE HYDRANT
- LIGHT POLE
- CATCH BASIN
- A-A' CROSS-SECTION LINE
- + STATE PLANE COORDINATES
- FLOW DIRECTION

FIGURE 53	 U.S. ARMY ENGINEER DISTRICT, SAVANNAH CORPS OF ENGINEERS SAVANNAH, GEORGIA	
SAMPLING LOCATION MAP LANDFILL NO. 3 TRAVIS FIELD		
SAVANNAH	GEORGIA	
 METCALF & EDDY	APPROVED	
	SCALE: 1" = 50'	DATE

5-4

Figure 5
SI Sampling Plan

FROM GA DNR HSRP 02-17-97 06:47PM TO 02-17-97 06:47PM TO 02-17-97 06:47PM TO
 94045628890
 Telephone # 94045628890
 Original Disposition: ☐ Return ☐ Destroy ☐ Call for pickup
 This is the rest of the faxed report. You should have 18 pages total.
 SI Sampling Travis Field

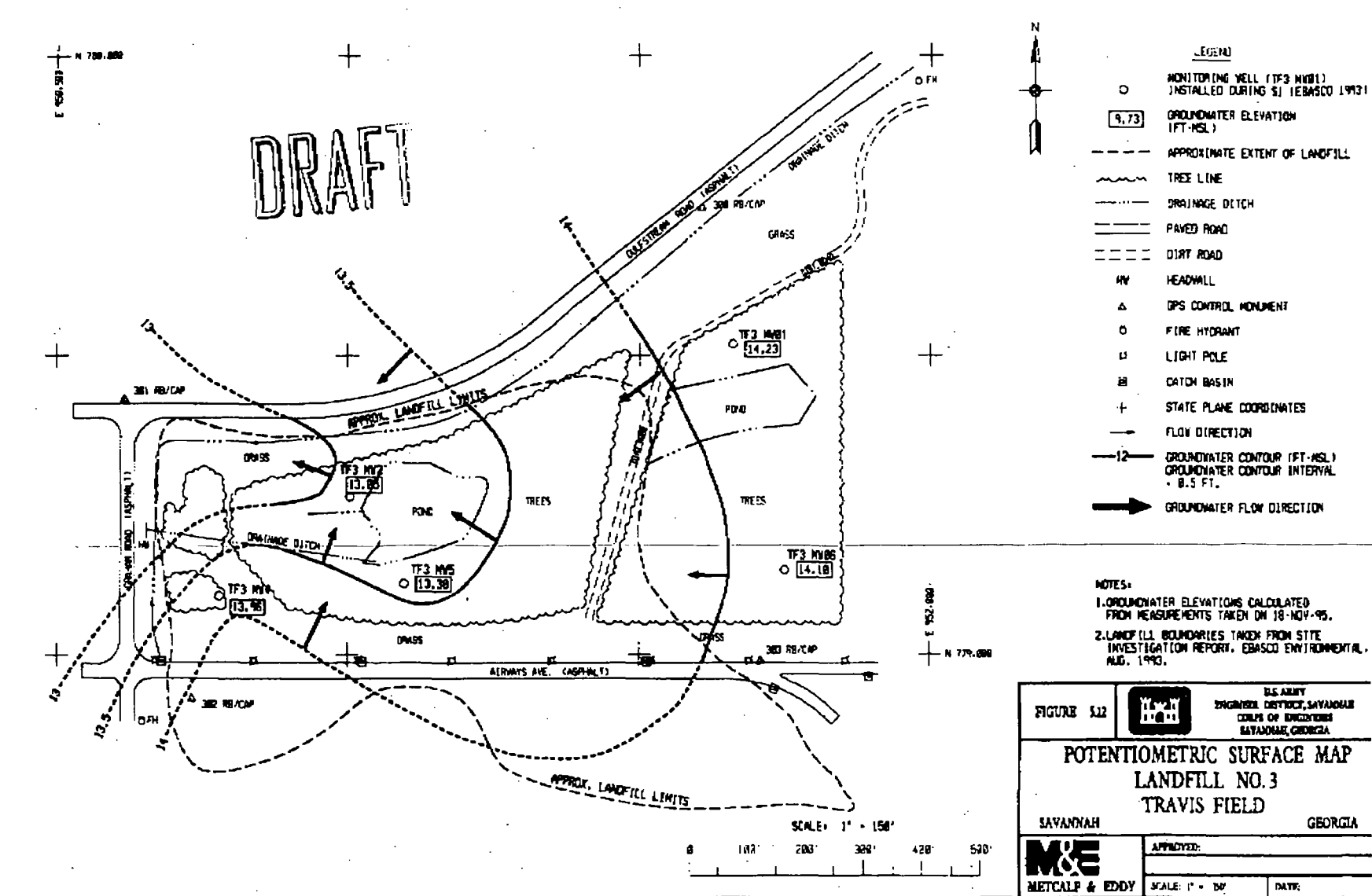


Figure 6
 SI Sampling Pl

Table 1
Samples and Proposed Analyses

Sample Name	Media	Analyses
LF1-A	soil or sediment	metals, VOCs, SVOCs, pest.
LF1-BG	soil	metals, VOCs, SVOCs, pest.
LF1-T(trip blank)	laboratory water	VOCs
LF2-A	soil or sediment	metals, VOCs, SVOCs, pest, BTEX
LF2-BG	soil	metals, VOCs, SVOCs, pest., BTEX
LF2-BG(dup)	soil	metals, VOCs, SVOCs, pest., BTEX
LF3-A	sediment	metals
LF3-A1	surface water	metals
LF3-B	sediment	metals
LF3-C	soil or sediment	metals
LF3-D	sediment	metals
LF3-D1	surface water	metals
LF3-E	surface water	metals
LF3-F(field blank)	laboratory water	
LF1-SWBG****	sediment	metals, VOCs, SVOCs, pest.
LF2-SWBG****	sediment	metals, VOCs, SVOCs, pest.

****Sample collection dependent upon field conditions

SITE SAFETY CHECKLIST

FACILITY NAME: Travis Field - SI Sampling Event

EPA ID#: GAD 984307918

ADDRESS: Savannah, Georgia

PHONE NO: _____

PERSONNEL LOG

NAME/SIGNATURE	DATE LAST SAFETY TRAINING/ FIT TEST	DATE CHECKLIST PREPARED/ REVIEWED	** CHECKLIST MODIFIED?	SITE VISIT DATE(S)	INSPECTION TYPE (CHE, CEI, RPA, ETC.)	IMMEDIATE SUPERVISOR'S SIGNATURE OF APPROVAL AND DATE	SECOND LEVEL SUPERVISOR'S SIGNATURE OF APPROVAL AND DATE
* Tracy L. Heard	OSHA 8 hr 5/6/96			2-26-97	Site	Mark O. Smith 2/12/97	KS 2/12/97
R Kestle	5/6/96			2-27-97	Inspection (SI)	Mark O. Smith 2/12/97	
				2/28/97	SI		
				2/29/97			

Place an asterisk (*) before the name of the EPA person who will be responsible for protection and safety of all EPA personnel during the site visit.

Place a double asterisk () and date after modified information, or attach extra page.

cc: Occupational Health and Safety Designee

#218 P.4/7

94045528096

02-17-97 06:48PM TO

4046578807

FROM GA DNR HSRP

GENERAL INFORMATION

FACILITY NAME:

Travis Field

CONTACT

Army Corps of Engineers
John Keiser (912) 652-
5687

DIRECTIONS TO FACILITY: (Attach map if possible)

from Savannah - 16 W to 307 N (Dean Forrest Road)

SPECIAL ACCESS REQUIREMENTS:

Landfill #1 - On eastern side of 307 adjacent to Days Inn Hotel
Landfill #2 - On eastern side of 307, adjacent to gas station at intersection of
Dargue Rd↳ Notify Army COE. contact
EMERGENCY INFORMATION

AMBULANCE:

TELEPHONE:

911

HOSPITAL:

Memorial Medical Ctr. - 4700 Waters Ave.

TELEPHONE:

911

POLICE:

TELEPHONE:

911

FIRE DEPARTMENT:

TELEPHONE:

911

SITE/FIRE EVACUATION SIGNALS:

INFORMATION SOURCES

PART B:

STATE:

CONTINGENCY PLAN:

ESD:

RFA:

CLOSURE PLAN:

QUESTIONNAIRE:

PART A:

OTHER:

PERMITS

HAZARDOUS WASTE:

STATUS:

WATER:

AIR:

OTHER:

SUMMARY OR REGULATED UNITS AND SWMUS: (Indicate number of units)

LANDFILLS:

INCINERATORS:

STORAGE AREAS:

WASTE PILES:

OTHER TREATMENT:

OTHER:

SURFACE IMPROVEMENTS:

TANK FARMS:

SWMUS:

FACILITY PROCESS DESCRIPTION

3 - Abandoned

PREVIOUS RELEASES/ACCIDENTS OR COMPLAINTS:

(Corrected? YES/NO)

AIR _____

SOIL _____

*metals, volatiles**No*

SURFACE WATER _____

*metals**No*

INDUSTRIAL ACCIDENTS _____

COMPLAINTS _____

Complaints/Questions to regional office re: IDW on-site.

HEALTH AND SAFETY HAZARDS

Briefly indicate hazard type. Attach additional pages if necessary.

EXPLOSION/OXYGEN DEFICIENCY HAZARDS:

NONE (Circle if applicable)

RADIATION HAZARDS:

NONE (Circle if applicable)

TOXIC HAZARDS:

NONE (Circle if applicable)

Briefly summarize chemicals handled on site: Add attachment if necessary. Indicate if these exist in a controlled state. Refer to Part A Application if list is extensive.

UNUSUAL PHYSICAL HAZARDS:

NONE (Circle if applicable)

UNUSUAL BIOLOGICAL HAZARDS:

NONE (Circle if applicable)

CHECK IF PROBLEM EXPECTED: NOISE _____ HEAT STRESS _____ COLD STRESS _____

OVERALL HAZARD RATING: (CIRCLE ONE)

VERY HIGH
(LEVEL A)HIGH
(LEVEL B)MEDIUM
(LEVEL C)LOW
(LEVEL D)

(ASSISTANCE NECESSARY) (ASSISTANCE NECESSARY) (MONITORING REQUIRED)

PERSONNEL PROTECTIVE EQUIPMENT

(List equipment needed in addition to safety glasses, hard hat, and steel toed boots)

	Check if Needed	Needed throughout entire facility? (If no, list area(s) or task(s) where needed
<u>HEAD AND EYE</u>		
FACE SHIELD	_____	_____
GOGGLES	_____	_____
NOISE PROTECTION	_____	_____
OTHER	_____	_____
<u>RESPIRATORY:</u>		
	TYPE	
APR	_____	_____
APR CARTRIDGE	_____	_____
ESCAPE MASK	_____	_____
OTHER	_____	_____
<u>CLOTHING:</u>		
TYVEK COVERALL	_____	_____
GARANEX COVERALL	_____	_____
COTTON COVERALL	_____	_____
SPLASH SUIT	_____	_____
OVERBOOTS	✓	_____
RAIN GEAR	✓	_____
OTHER	_____	_____
<u>MISCELLANEOUS:</u>		
Disposale, stabl gloves		_____
_____		_____
_____		_____

<u>LEVEL A OR B NEEDED?</u>	<u>Contractor or ESD?</u>	<u>Areas/tasks where needed</u>
LEVEL A _____	_____	_____
LEVEL B _____	_____	_____
<u>AIR MONITORING TYPE</u>	<u>Conducted by</u>	<u>Areas/tasks where needed</u>
TOXIC _____	FACILITY _____	_____
EXPLOSIVE/OXYGEN _____	ESD _____	_____
RADIATION _____	OTHER _____	_____
NONE _____	OTHER _____	_____